

A N

B

ATTEMPT

To DISCOVER the

LONGITUDE

At *S E A*,

PURSUANT

To what is Proposed in a *LATE*

ACT of Parliament.

By *FRANCIS HALDANBY, Esq.*

L O N D O N :

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Martin's-Hall.* (Price 2s.)

A N

ATTEMPT

To Discover the

LONGITUDE

At 2 E. N.

PURSUANT

To an Act of Parliament

in that behalf made

in the first year of the said Majesty's

STATUTE

in that behalf made

And sold by John Harrison at the
Price of 10s. 6d.

T O T H E

Right Honourable Thomas Earl
of Pembroke and Montgo-
mery.

The Right Honourable Philip Lord
Bishop of Hereford.

The Right Honourable George Lord
Bishop of Bristol.

The Right Honourable Thomas Lord
Trevor.

The Honourable Sir Thomas Han-
mer, Baronet.

The

The Dedication.

The { *Honourable Francis*
 Robarts, }
 James Stanhope, } *Esq;*
 William Clayton, }
 William Lowndes, }

The first Commissioner of the Admiralty.

The first Commissioner of the Navy.

The first Commissioner of Trade.

The Admirals of the Red, White, and Blue Squadrons.

The Master of Trinity House. The President of the Royal Society. The Royal Astronomer of Greenwich. The Savilian, Lucasian, and Plumian Professors of the Mathematicks in Oxford and Cambridge.

Commissioners appointed by Act of Parliament for trying and judging of all Proposals, Experiments, and Improvements relating to the Discovery of

The Dedication.

of the Longitude at Sea. This Attempt for it's Discovery is humbly presented by

Your most Humble, and

most Obedient Servant,

Fr. Haldanby.

The Dedication

of the Longitudinal at Sea. This is
referred to in a different manner
by

Your most Humble and

most Obedient Servant,

Lt. Hallock.

TO THE
Right Honourable
James Stanhope, Esq;

One of his Majesty's Principal
Secretaries of State.

THIS small Attempt to discover
the Longitude at Sea, assumes
a Confidence (which puts the Author
to the Blush) to Address it self, in a
particular manner to a Person of your
extraordinary Rank and Merits with-
out being known, without any name in
World, and without the Ceremony of
an Introduction.

It is, I must confess, a strange and uncommon Assurance; and such as can expect Pardon only from that uncommon Goodness with which You are indued. But after the bold Attempt to Discover the Longitude at Sea, and mingle himself amongst the daring Adventurers in so perillous an Undertaking, some Grains of Allowance may be given to this, yet greater Audacity to present to Your particular Consideration such a trifle as this possibly may prove, if the success in his Attempt does not answer his Expectation, of which however he is not without some hopes.

But how audacious soever the Author may seem to be, he is not hardy enough to desire the Honour, Sir, of Your Protection, or the least favourable Countenance towards a thing that must stand or fall by it's own Merits, or Demerits.

Sir, Your penetrating Judgment, and Skill in the Mathematicks will soon determine

determine the fate of this Attempt. The Method is obvious, and soars not to that height, which the more learned have flown, but yet is Mathematical, and may easily be apprehended by the skill in Navigation. It's facility can be no Crime if it answers the end for which it is design'd; and if it contain'd thoughts of the highest elevation, and yet fail'd of the end, it cou'd avail nothing towards it's Success.

If You please, Sir, to honour this with the permission to kiss Your Hands, let it's Doom be what it will; the satisfaction of the Honour it has receiv'd will lay an eternal Obligation upon,

Sir,

Your most Obedient, and

most Humble Servant,

Fr. Haldanby.

determine the fate of this attempt.
The method is obvious, and fears not
to that height, which the more learned
have shown, but yet is philosophical,
and may easily be apprehended by the
skill in Navigation. It's failing can be
no Crime if it prevents the end for
which it is designed; and if it con-
tain'd thoughts of the highest eleva-
tion, and yet fail'd of the end, it
could not be nothing towards it's suc-
cess.

If you please, Sir, to converse this
with the permission to visit your library
let it be soon be made as well; the per-
sistence of the House is that record
will lay an eternal Obligation upon

Sir,

Your most Obedient, and

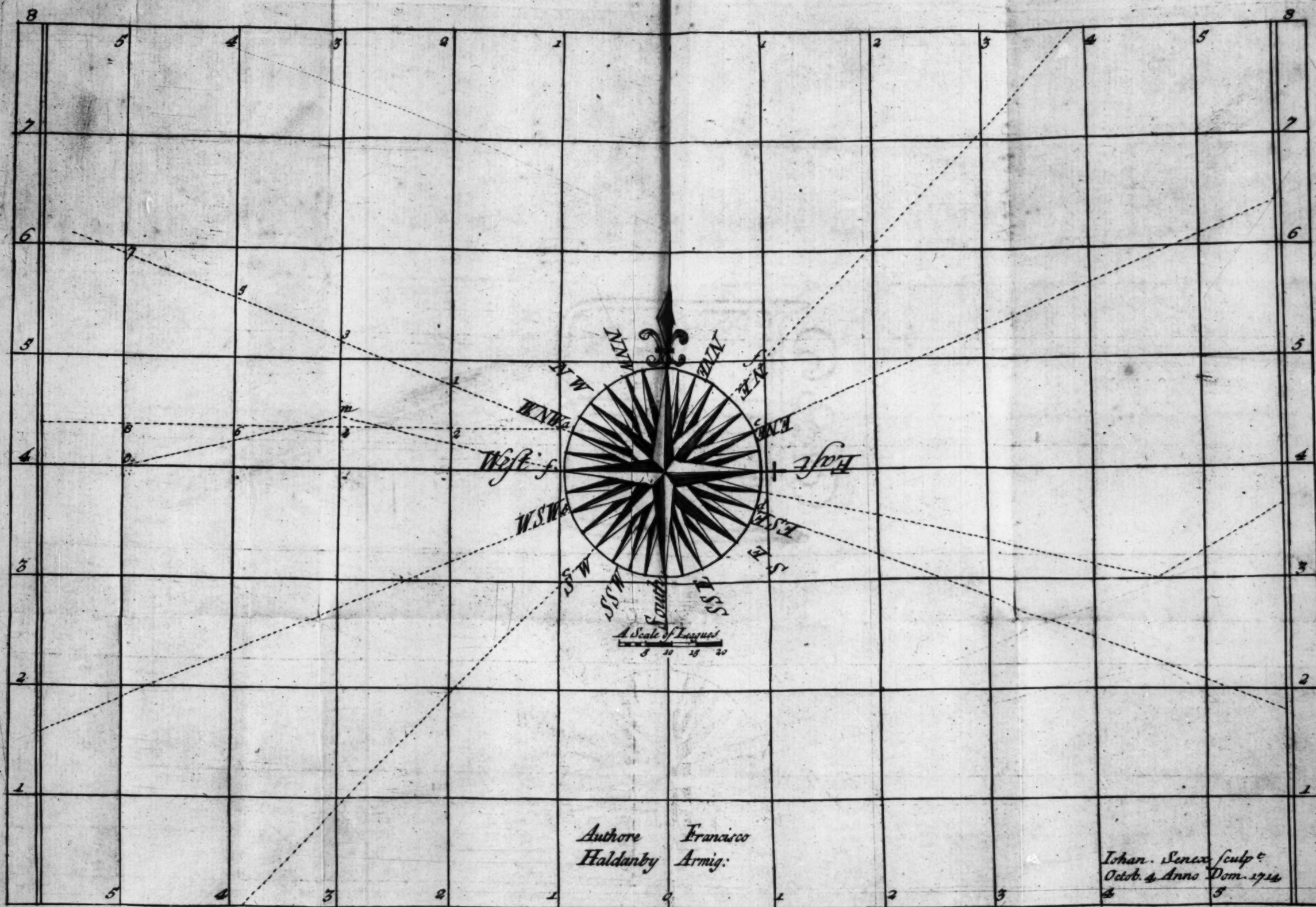
most Humble Servant,

Ed. Haldenby.

THE Author's Intention at present, being only to frame such a Draught, or Scheme, as may shew that the Longitude at Sea is to be known as well as the Latitude; and that his Method leads to that Knowledge. It is not to be expected, in this short View which he presents to the Publick, that any more should be discover'd than what sufficeth to make plain the feasibility of the Longitudes being made as well known as the Latitude: And that (pursuing the Method, of which the Foundation is here laid) he shall hereafter clearly discover the Longitude in any part of the Sea. And that

that his Method shall be altogether as serviceable in the Navigation of the longest Voyages, either Eastward or Westward, as the knowledge of the Latitude is to the Sailing North or South; and with as little danger of losing the Longitude, as there is of losing the Latitude.

The Instruments, hereafter to be framed, will so exactly regulate and proportion the Longitude to the Latitude from East and West to North and South, that having recourse to them upon any occasion; the Longitude of any part of the Sea in which they are, will as manifestly appear as the Latitude. Which will extend to the security of Ships, within any Degree or Number of Leagues mention'd by the Act of Parliament.



The Explication of the Scheme. The Degrees of which are within the two Tropics.

THE blank Line (*a*) shews that a Ship steering her Course directly West North West, gains about eight Leagues of Latitude, and Twenty Leagues or one Degree of Longitude, and so in proportion to every eight Leagues of Latitude, Twenty Leagues or one Degree of Longitude. Within a certain number of Degrees (within the Tropics) but not universally, because the same proportion will not hold throughout. But will be proportion'd by the Instruments which are to be made hereafter.

The blank Line (*b*) shews the same from the Point West South West.

The

The blank Line (c) plainly sheweth, that bearing her Course more to the Southward, she gains more Leagues of Latitude, in proportion to one Degree of Longitude, than in the Two Points (a) and (b), which also happens in the opposite Points (d) (e) and (f), which with all other Variations, will be exactly regulated and proportion'd by the Instruments that are to be made.

One Example explain'd, by which the rest may be easily understood.

OPEN your Compasses, and place their Feet upon the Sections (1) and (2) then measure the space upon the Scale of Leagues; where you'll find about Eight Leagues of Latitude, then open your Compasses from Section (2) to (a) and you'll find that she has sail'd one Degree of Longitude. Remove your Compas-

fes

ses and place their Feet at the Sections (3) and (4) you'll find double the number of Leagues in Latitude and Two Degrees of Longitude. Do in like manner to the Sections (5) and (6) and (7) and (8) you'll find the same Increase of Longitude in proportion to the number of Leagues of Latitude. Thus the Longitude will always be certainly known by the Latitude.

The Curviline shews, that steering yet more directly East or West, from the letter (*a*) by bending her Course first Northward, and then Southward, where, having gain'd about Ten Leagues of Latitude, she has sail'd Forty Leagues, or Two Degrees in Longitude. Then doubling the Point (*m*) and steering Southward to the Point (*o*) having regain'd about Ten Leagues of Latitude, she has sail'd Eighty Leagues, or Four Degrees of Lon-

Longitude. By which Computation she may always keep her Longitude.

The Author has avoided Length, to the end he might not offer any thing that would be tedious to his Reader. And hopes that what he has set forth in few Words, will suffice both to explain his Meaning, and shew that his Method will attain to the perfect Discovery of the Longitude, when all his Instruments shall be compleated.

FINIS.

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